

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at line 1 of page ² ~~1~~ with the following replacement paragraph in marked up form:

Polar modulation techniques applicable to radiotelephone communications are described, for example, in U.S. patents 6,377,784 and 6,864,668 ~~U.S. patent application Ser. Nos. 09/247,095 and 09/247,097~~ of the present assignee, entitled HIGH-EFFICIENCY MODULATING RF AMPLIFIER and HIGH-EFFICIENCY AMPLIFIER OUTPUT LEVEL AND BURST CONTROL, respectively, filed Feb. 9, 1999 and incorporated herein by reference. In polar modulation, the phase of the output signal is controlled by modulating the phase of a constant envelope drive signal applied to the amplifier. The amplitude is varied by controlling the DC supply voltage to the power amplifier. Ideally, these DC supply voltage variations would transfer perfectly to the RF envelope, but in practice the conversion is impaired by non-linear effects, characterized as AM-to-AM (amplitude modulation) distortions and AM-to-PM (phase modulation) distortions. Both these types of errors degrade the power spectral density and the EVM (error vector magnitude) of the desired signal.

gnd
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